

**PARTIAL TRANSLATION OF  
JAPANESE UNEXAMINED UTILITY MODEL APPLICATION NO. 1989-22952**

Title: DEVICE FOR ATTACHING HEATING WIRE TO ELECTRIC HEATING APPARATUS

Applicant: Aichi Electric Co., Ltd

**[Scope of the Utility Model Registration]**

A device for attaching heating wires to an electric heating apparatus, wherein

the electric heating apparatus contains an electric heater having heating wires wound around a bobbin formed by combining two plates composed of a thermal-resistant insulating material in a crisscross fashion,

the device comprising:

engagement grooves having a width smaller than the outer diameter of the heating wires and disposed in the portions of the bobbin where the heating wires are wound; and

a pair of engagement protrusions provided in each groove so that the engagement protrusions are aligned along a line or overlap with each other with a predetermined distance between them, so as to prevent the removal of the heating wires.

**[Brief Description of the Drawings]**

FIG. 1 is a vertical cross section of an electric heating apparatus comprising an electric heater according to the present device;

FIG. 2 is a perspective view of the main parts of the electric heating apparatus;

FIG. 3 is a perspective view for use in illustrating how heating wires are attached in a conventional electric heater; and

Fig. 4 is a perspective view for use in illustrating how heating wires are attached in a conventional electric heater.

- 1 Dryer body
- 4 Fan
- 13 Nozzle Tube
- 15 Outlet grille
- 18 Air-blown passage
- 21 Heat source
- 22 Ceramic Grid
- 26 Elastic ring

⑫ 公開実用新案公報 (U)

昭64-22952

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**審查請求 未請求 (全 2 頁)**

#### ④考案の名称 電熱器具の電熱線取付装置

②) 宋 頤 昭 62-116114

㉙出願昭62(1987)7月29日

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## ⑤ 実用新案登録請求の範囲

耐熱性電気絶縁材料よりなる2枚の板体を十字状に組合せて形成したボビンに電熱線を巻付て構成した電気発熱体を内蔵する電熱器具において、前記ボビンの電熱線を巻付ける位置に、この電熱線の外径寸法より小さな幅寸法によって係合溝を穿設するとともに、この係合溝内には、電熱線の抜脱を阻止する一対の係止突起を所定の間隔を保つて同一線上の位置あるいは重なり合う状態で突

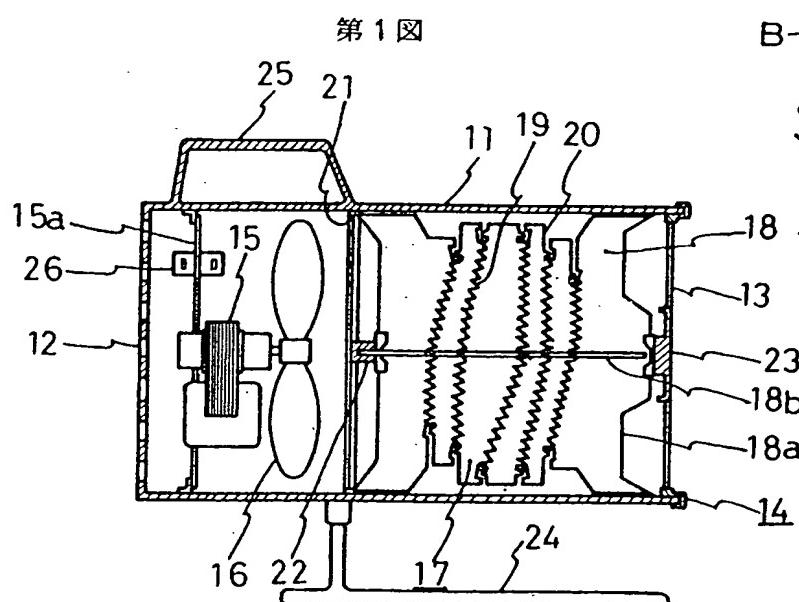
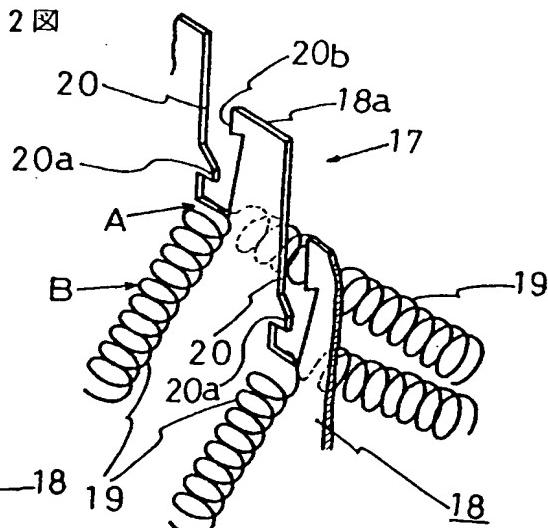
設して成る電熱器具の電熱線取付装置。

### 図面の簡単な説明

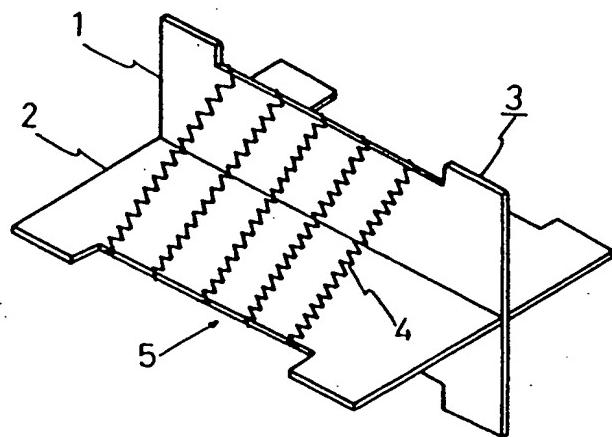
第1図は本考案装置による電気発熱体を取付けた電熱器具の縦断面図、第2図は要部の斜視図、第3図及び第4図は従来の電熱線の取付状態を示す電気発熱体の斜視図である。

17: 電気発熱体、18: ポビン、18a, 18b: 板体、19: 電熱線、20: 係合溝、20a, 20b: 係止突起。

第2圖



第3図



第4図

